NITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Offi-

P O Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

## NOTICE OF ALLOWANCE AND FEE(S) DUE

26263 759n

CHICAGO, IL 60606-1080

P.O. BOX 061080

06/17/2009

SONNENSCHEIN NATH & ROSENTHAL LLP WACKER DRIVE STATION, SEARS TOWER

EXAMINER

BRIGGS, NATHANAEL R PAPER NUMBER ART UNIT

2871

DATE MAILED: 06/17/2009

APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO 09/957.422 09/20/2001 Takayuki Fujioka 9792909-5242 TITLE OF INVENTION: DIFFUSING REFLECTOR AND MANUFACTURE OF THE SAME

APPLN, TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1510 \$300 \$0 \$1810 09/17/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

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	NCE ADDRESS (Note: Use Bi	Not Fee pap hav	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.						
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CHICAGO, IL 6	0606-1080							(Depositor's name)	
								(Signature)	
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09/957,422	09/20/2001			Takayuki Fujioka	9792909-5242 2711			2711	
TITLE OF INVENTION:									
APPLN, TYPE	SMALL ENTITY	ISSUE	FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSU	E PEE	TOTAL FEE(S) DUE	DATE DUE	
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BRIGGS, NATHANAEL R		2871		349-113000	•				
"Fee Address" indi- PTO/SB/47; Rev 03-07 Number is required.  3. ASSIGNEE NAME AN	ND RESIDENCE DATA ess an assignee is ident i in 37 CFR 3.11. Com	" Indication ted. Use of a A TO BE PF	form a Customer RINTED ON	(1) the names of up to or agents OR, alternati (2) the name of a singl registered attorney or a 2 registered patent atto listed, no name will be THE PATENT (print or tyl data will appear on the p T a substitute for filing an (B) RESIDENCE: (CITY	rely, e firm (having as a ggent) and the nam rneys or agents. If printed. be) atent. If an assign assignment.	memb es of uj no nam ee is id	er a 2 0 to 0 to 0 to 3 0 to 0 to 0 to 0 to 0	ocument has been filed for	
Please check the appropri	ate assignee category or	categories	(will not be pr	rinted on the patent):	Individual 🗖 Co	orporati	on or other private gro	up entity 🗖 Government	
4a. The following fee(s) are submitted:    Issue Fee   Publication Fee (No small entity discount permitted)   Advance Order - # of Copies				b. Payment of Fee(s): (Ples A check is enclosed. Payment by credit car The Director is hereby overpayment, to Depo	d. Form PTO-2038	is atta	ched.		
	SMALL ENTITY state	ıs. See 37 C		☐ b. Applicant is no lon					
NOTE: The Issue Fee and interest as shown by the n	Publication Fee (if req ecords of the United Sta	uired) will r ites Patent a	not be accepte nd Trademark	d from anyone other than t Office.	he applicant; a regi	stered a	ttorney or agent; or th	e assignee or other party ir	
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PTOL-85 (Rev. 08/07) Approved for use through 08/31/2010.



## UNITED STATES PATENT AND TRADEMARK OFFICE

## NITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Offi-

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09/957,422	09/20/2001	Takayuki Fujioka	9792909-5242	2711
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SONNENSCHEI	N NATH & ROSEN	BRIGGS, NATHANAEL R		
P.O. BOX 061080		ART UNIT	PAPER NUMBER	
WACKER DRIVE	STATION, SEARS T	2871		

'ACKER DRIVE STATION, SEARS TOWER CHICAGO, IL 60606-1080

DATE MAILED: 06/17/2009

## Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1266 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1266 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

# Notice of Allowability

Application No.	Applicant(s)				
09/957,422	FUJIOKA ET AL.				
Examiner	Art Unit				
NATHANAEL P. RPIGGS	2871				

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- This communication is responsive to amendments filed 6/2/2009.
- The allowed claim(s) is/are 1,2,4 and 5.
- Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) 

    All b) 

    Some\* c) 

    None of the:
    - 1. X Certified copies of the priority documents have been received.
    - 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_
    - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDOMMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) 🔲 including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
  - The reto or 2) to Paper No./Mail Date \_\_\_\_.

    The reto or 2) to Paper No./Mail Date \_\_\_\_.

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    The reto or 2) to Paper No./Mail Date \_\_\_\_.
  - Paper No./Mail Date \_\_\_\_\_.

    Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of

Identrying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- 1. Notice of References Cited (PTO-892)
- Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- Examiner's Comment Regarding Requirement for Deposition
   of Biological Material
- Notice of Informal Patent Application
   Interview Summary (PTO-413),
- Paper No./Mail Date \_\_\_\_.

  7. 

  Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. 🔲 Other \_

/N. R. B./

Examiner, Art Unit 2871

Application/Control Number: 09/957,422 Page 2

Art Unit: 2871

## DETAILED ACTION

## Allowable Subject Matter

- Claims 1-2 and 4-5 are allowed.
- 2. The following is an examiner's statement of reasons for allowance: Claim 1 recites a method of manufacturing a diffusing reflector comprising the processes of preparing a substrate; forming a first resin film; providing a gathering of adjacent pillar-shaped bodies isolated from each other through patterning of said resin film; said first resin film is patterned by straight connected lines that form a continuous polygonal pattern, said straight connected lines providing a continuous and substantially uniform gap between any two of said adjacent polygonal pillar-shaped bodies thereby forming a rectilinear honeycomb-like pattern; said gap is substantially constant throughout the honeycomb-like pattern and has a size equal to about a minimum resolution of said photolithography. None of the prior art of record alone or in combination discloses the claimed invention.
- 3. Tsuda et al. (US 5,936,688) discloses a method of manufacturing a diffusing reflector comprising the processes of preparing a substrate; forming a first resin film; providing a gathering of adjacent pillar-shaped bodies isolated from each other through patterning of said resin film; said first resin film is patterned by straight connected lines that form a continuous polygonal pattern, said straight connected lines providing a continuous and substantially uniform gap between any two of said adjacent polygonal pillar-shaped bodies thereby forming a rectilinear honeycomb-like pattern. However, Tsuda does not disclose wherein said gap is substantially constant throughout the

Application/Control Number: 09/957,422

Art Unit: 2871

honeycomb-like pattern and has a size equal to about a minimum resolution of said photolithography, now would it have been obvious to do so in combination.

- 4. Nakamura et al. (US 5,847,789) discloses a method of manufacturing a diffusing reflector comprising the processes of preparing a substrate; forming a first resin film; providing a gathering of adjacent pillar-shaped bodies isolated from each other through patterning of said resin film; said first resin film is patterned by straight connected lines that form a continuous polygonal pattern. However, Nakamura does not disclose said straight connected lines providing a continuous and substantially uniform gap between any two of said adjacent polygonal pillar-shaped bodies thereby forming a rectilinear honeycomb-like pattern, or wherein said gap is substantially constant throughout the honeycomb-like pattern and has a size equal to about a minimum resolution of said photolithography, nor would it have been obvious to do so in combination.
- 5. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NATHANAEL R. BRIGGS whose telephone number is (571)272-8992. The examiner can normally be reached on 9 AM - 5:30 PM Monday through Friday.

Art Unit: 2871

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Nelms can be reached on (571) 272-1787. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Nathanael Briggs 6/16/2009

/David Nelms/ Supervisory Patent Examiner, Art Unit 2871